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What is claimed is:

1. A method for transmitting message packets over a communications network comprising the steps of:

converting a plurality of streams of audio and/or 5 visual information into a plurality of streams of addressed digital packets complying with the specifications of a network communication protocol,

for each stream, routing such stream to one or more users,

controlling the routing of the stream of packets in response to selection signals received from the users, and monitoring the reception of packets by the users and accumulating records which indicate which streams of packets were received by which users.

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- 2. The method of claim 1 further comprising the step of including in at least one stream of packets at least some advertising information.
- 20 3. The method of claim 2 further comprising the step of varying the content of the advertising information with the identity of the user to whom the advertising information is provided.
- 25 4. The method of claim 2 wherein the advertising information is inserted into the stream of audio and/or visual information before such stream is converted into a stream of packets.
- of generating an audio output and/or a visual display from the stream of packets received by the user.
- The method of claim 1 further comprising the steps 35 of:

storing a first stream of packets received by the user at a first time and

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at a later time, inserting the first stream of packets into a second stream of packets received at the user.

The method of claim of further comprising the step of converting the combined first and second streams of packets into an audio output and/or visual display.

The method of claim wherein the first stream of packets contains advertising information.

of the user.

15 10. The method of claim 2 wherein the records that are accumulated indicate how many users received specific advertising information.

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1/1. The method of claim 1 wherein at least one stream
20 of packets comprises copyrighted music selections and the
records that are accumulated indicate how many users received
specific music selections.

The method of claim 1 wherein at least one stream

comprise music selections and the records that are
accumulated indicate how many users did or did not listen to
the entire selection.

17. The method of claim 1 further comprising the steps 30 of:

compressing the stream of packets in their passage from source to user, and $% \left(1\right) =\left(1\right) +\left(1\right)$

decompressing the stream of packets near the user.

35 14. The method of claim where in the compressing step uses a compression algorithm that is selected in accordance

with the content of the information being communicated in the stream of packets.

15. The method of claim wherein the compressing step

inserts into each packet an identification of the compression algorithm used and the decompressing step monitors each packet to read such identification and to vary its decompression algorithm in response thereto.

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16. A method for transmitting at least one stream of audio and/or visual information over a communications network to a plurality of users comprising the steps of:

controlling the routing of the stream of information through the network in response to selection 15 signals received from the users, and

monitoring the reception of the stream of information by the users and accumulating records relating to the reception of the stream of information by the users.

20 1/7. The method of claim 1/6 further comprising the step of including in at least one stream of information at least some advertising information.

18. The method of claim 1 further comprising the step 25 of varying the content of the advertising information with the identity of the user to whom the advertising information is provided.

19. The method of claim 16 further comprising the steps 30 of:

storing a first stream of information received by the user at a first time and

at a later time, inserting the first stream of information into a second stream of information received by 35 the user.

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20. The method of claim 1/9 wherein the first stream of information contains advertising information.

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2/1. The method of claim 1/1 wherein the records that are 5 accumulated indicate how many users received specific advertising information.

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The method of claim 1/ wherein at least one stream of packets comprises copyrighted music selections and the 10 records that are accumulated indicate how many users received specific music selections.

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2/3. The method of claim 1/7 wherein at least one stream of packets comprise music selections and the records that are 15 accumulated indicate how many users did or did not listen to the entire selection.

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2/4. The method of claim 1/7 further comprising the steps of:

20 compressing the stream of information in its passage from source to user, and

decompressing the stream of information near the user.

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uses a compression algorithm that is selected in accordance with the content of the information being communicated in the stream of information.

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2/6. The method of claim 1/6 wherein multiple streams of audio and/or visual information are transmitted over the communications network and the user can select which stream to receive.

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27. A communication system comprising:

means for converting at least one stream of audio and/or visual information into a stream of addressed digital

packets complying with the specifications of a network communication protocol,

means for routing such stream via a communication network to selected users,

means for condrolling the routing of the stream of packets in response to selection signals received from the users, and

means for monitoring the reception of packets by the user and for accumulating records which indicate which 10 streams of packets were received by which users.

34 The communication system of claim 2/1 further comprising means for including in the stream of packets at least some advertising information.

The communication system of claim 28 further comprising means for varying the content of the advertising information with the identity of the user to whom the advertising information is provided.

The communication system of claim 2/1 further comprising means for generating from the stream of packets received at the user an audio output and/or a visual display.

The communication system of claim 2/7 further 3∕ſ. 25 comprising means for storing packets received at the user during a first time period and means for inserting such packets into other packets received at the user at a later time period.

41 The communication system of claim 1/1 wherein the stream of packets received during the first time period contains advertising information.

42 The communication system of claim 3/2 wherein the content of the advertising information is varied depending on the identity of the user.

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3/4. The communication system of claim 2/7 further comprising:

means for compressing the stream of packets in their passage from source to user, and

- downstream of the compressing means, means for decompressing the stream of packets. U_{II}
- 35. The communication system of claim 3/4 wherein the compressing means is located near the converting means and 10 the decompressing means is located at the user.
- 36. The communication system of claim 34 wherein the compressing means uses a compression algorithm that is selected in accordance with the content of the information being communicated in the stream of packets.
- 3/7. The communication system of claim 3/4 wherein the compressing means inserts into each packet an identification of the compression algorithm used and the decompressing means 20 monitors each packet to read such identification and to vary its decompression algorithm in response thereto.

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